

CLAIMS

1. An irrigation sprinkler, comprising:
- an outer housing having a lower inlet end connectable to a source of pressurized water;
- a riser vertically reciprocable along a vertical axis within the outer housing between extended and retracted positions when the source of pressurized water is turned ON and OFF;
- a nozzle mounted at an upper end of the riser for distributing water therefrom;
- a strainer mounted inside the outer housing and configured to filter debris from water passing through the lower inlet end of the outer housing; and
- a scrubber mounted within the outer housing and configured for scraping accumulated debris from the strainer.
2. The irrigation sprinkler of Claim 1 wherein the strainer is mounted to a lower end of the riser.
3. The irrigation sprinkler of Claim 2 wherein the scrubber is mounted to the inlet end of the outer housing.
4. The irrigation sprinkler of Claim 1 wherein the scrubber includes at least one resilient arm that presses a wiper blade against the strainer.
5. The irrigation sprinkler of Claim 1 wherein the scrubber includes a plurality of vertically extending resilient arms each configured for pressing a wiper blade at an upper end thereof against the strainer.
6. The irrigation sprinkler of Claim 1 wherein the strainer is mounted to a lower end of the riser, and the scrubber is mounted to the inlet end of the outer housing and includes a

4 plurality of circumferentially spaced vertically extending arms each having a wiper blade at an upper
end thereof for scraping an outer surface of the strainer.

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2 7. The irrigation sprinkler of Claim 6 wherein the strainer has a frusto-conical
configuration.

2 8. The irrigation sprinkler of Claim 7 wherein the scrubber has a generally cylindrical
configuration.

9. The irrigation sprinkler of Claim 1 wherein the strainer has a finer mesh section and
a coarser mesh section.

10. The irrigation sprinkler of Claim 9 wherein the finer mesh sections is made of a
lattice of first openings of a first size and the coarser mesh section is made of a lattice of second
openings of a second size larger than the first size.

11. An irrigation sprinkler, comprising:
an outer housing having a lower inlet end connectable to a source of pressurized water;
a riser vertically reciprocable along a vertical axis within the outer housing between
4 extended and retracted positions when the source of pressurized water is turned ON and OFF;
a nozzle mounted at an upper end of the riser for distributing water therefrom; and
6 a strainer mounted inside the outer housing and configured to filter debris from water
passing through the lower inlet end of the outer housing, the strainer having a finer mesh section
8 and a coarser mesh section.

2 12. The irrigation sprinkler of Claim 11 wherein the strainer is mounted to a lower end
of the riser.

13. The irrigation sprinkler of Claim 11 and further comprising a scrubber mounted within the outer housing and configured for scraping accumulated debris from the strainer.

14. The irrigation sprinkler of Claim 11 wherein the finer mesh section and the coarser mesh section are circumferentially spaced from one another.

15. The irrigation sprinkler of Claim 11 wherein the finer mesh sections is made of a lattice of first openings of a first size and the coarser mesh section is made of a lattice of second openings of a second size larger than the first size.

16. An irrigation sprinkler, comprising:
an outer housing having a lower inlet end connectable to a source of pressurized water and a plurality of circumferentially spaced vertically extending ribs formed on an interior wall thereof;
a riser vertically reciprocable along a vertical axis within the outer housing between extended and retracted positions when the source of pressurized water is turned ON and OFF;
a nozzle mounted at an upper end of the riser for distributing water therefrom; and
a strainer mounted inside the outer housing and configured to filter debris from water passing through the lower inlet end of the outer housing, the strainer having a plurality of circumferentially spaced projections configured and positioned to engage the ribs on the interior wall of the outer housing and deflect past the same to provide a ratchet mechanism that allows for adjustably positioning the riser in a predetermined fixed rotational relationship with the outer housing.

17. The irrigation sprinkler of Claim 16 wherein the strainer is mounted to a lower end of the riser.

18. The irrigation sprinkler of Claim 16 and further comprising a scrubber mounted within the outer housing and configured for scraping accumulated debris from the strainer.

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2 19. The irrigation sprinkler of Claim 16 wherein the strainer has a finer mesh section and
a coarser mesh section.

20. The irrigation sprinkler of Claim 16 wherein the projections are formed as rounded
2 teeth.

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